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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/829,781	04/10/2001	Tsung-Yuan Hsu	B-3916 617818-6	1039
36716 7	7590 09/19/2006		EXAMINER	
LADAS & PARRY			NGUYEN, DUNG T	
5670 WILSHIRE BOULEVARD, SUITE 2100 LOS ANGELES, CA 90036-5679			ART UNIT	PAPER NUMBER
			2828	<u> </u>
	·		DATE MAILED: 09/19/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>		
•	Application No.	Applicant(s)
	09/829,781	HSU ET AL.
Office Action Summary	Examiner	Art Unit
	Dung (Michael) T. Nguyen	2828
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. lety filed the mailing date of this communication. O (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on <u>04 At</u> 2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	·
Disposition of Claims		
4) ☐ Claim(s) 1-34 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 1-10,19-34 is/are allowed. 6) ☐ Claim(s) 15-18 is/are rejected. 7) ☐ Claim(s) are subject to restriction and/or 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on is/are: a) ☐ accomplicant may not request that any objection to the or	vn from consideration. r election requirement. r. epted or b) □ objected to by the B	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex		
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	

DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 11-14 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 11 and 13-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Brenner et al. (6233080).

With respect to claims 11 and 13, Brenner et al. show in Fig.2 a method of enhancing the modulation bandwidth of a laser, the DFB laser 20 having a operating frequency and having an output and an input, the method comprising the steps of:

- (a) tapping the output from the laser to thereby define a tapped optical signal;
- (b) shifting the frequency (modulator 30) of the tapped optical signal to thereby define a shifted optical signal;
 - (c) feeding the shifted optical signal back into the input of the laser.

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With respect to claim 14, Brenner et al. teach the Mach-Zehnder modulator (col.1, line 60).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Brenner et al. (6233080) in view of Ih (4768852).

Brenner et al. disclose all limitations of the claims except for the Surface Acoustic Wave (SAW).

Ih teaches a SAW (col.1, line 36).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide Brenner et al. what is taught by Ih to employ an alternative modulator (col.1, line 36).

Allowable Subject Matter

Claims 15-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Claims 1-10 and 19-34 are allowed.

Claims 1, 19, 23, and 30 are allowed over the Mossberg et al., Brenner et al., and Ih prior art because they fail to teach, taken singly or combined, the limitations of a modulator for generating two sidebands and a filter coupled to an output of the modulator for suppressing or passing on of the two sidebands, and an optical path coupling an output of the filter to the laser for injection locking.

Communication Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung (Michael) T Nguyen whose telephone number is (571) 272-1949. The examiner can normally be reached on 8:30 - 17:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Min Harvey can be reached on (571) 272-1835. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-3329.

Michael Dung Nguyen

Michael 4

9/06/06